CONTENTS

British Volume, 79-B, 1997

Editorials

Trauma and orthopaedic surgeons 1
P. Fulford

Trauma management in the United Kingdom 1
C. Court-Brown and M. M. McQueen

Osteogenesis imperfecta – where next? 177
R. Smith

Bone allograft: a cause for concern? 178
F. H. Norman-Taylor and R. N. Villar

Electronic publishing – the next steps 349
P. Fulford

Science and sinuses 350
S. Nade

Whiplash injuries 517
A. H. C. Ratliff

Arthroscopy and MRI for the knee 520
D. J. Dandy

Antibiotic prophylaxis, dental treatment and arthroplasty: time to explode a myth 521
S. S. Sandhu, J. C. Lowry, M. E. Morton and S. F. Reuben

Retraction of a paper 705
P. Fulford

Thromboprophylaxis in elective orthopaedic surgery 889
C. R. M. Prentice

Fracture of the femur in children 891
M. F. Macnicol

Topics for debate

Fatigue failure of cancellous bone: a possible cause of implant migration and loosening 181
M. Taylor and K. E. Tanner

Taxonomy and treatment – a classification of fracture classifications 706
J. Bernstein, B. A. Monaghan, J. S. Silber and W. G. Delong

Fracture classification 708
C. L. Colton

Planovalgus and cavovarus deformity of the hind foot 892
K. Klaue

Scientific papers

Recurrent rotational deformity of the femur after static locking of intramedullary nails 4
C. Krettek, T. Miclau, M. Blauth, R. W. Lindsay, C. Donow and H. Tscherne
Clinical implications of stiffness and strength changes in fracture healing 9
M. J. Chehade, A. P. Pohl, M. J. Pearcy and N. Nawana
Patellectomy with vastus medialis obliquus advancement for comminuted patellar fractures 13
I. Günal, A. Taymaz, N. Köse, E. Göktürk and S. Seber
Fractures of the coracoid process 17
K. Ogawa, A. Yoshida, M. Takahashi and M. Ui
Aneurysmal bone cysts treated by curettage, cryotherapy and bone grafting 20
H. W. B. Schreuder, R. P. H. Veth, M. Pruszczynski, J. A. M. Lemmens, H. S. Koops and W. M. Molenaar
Radiological and clinical recurrence of giant-cell tumour of bone after the use of cement 26
D. Remedios, A. Saifuddin and J. Pringle
One-stage revision surgery for infected megaprostheses 31
G. Holzer, R. Windhager and R. Kotz
Free vascularised fibular grafting for reconstruction after tumour resection 36
R. W.-W. Hsu, M. B. Wood, F. H. Sim and E. Y. S. Chao
Free vascularised fibular strut graft for anterior spinal fusion 43
A. Minami, K. Kaneda, S. Satoh, K. Abumi and K. Kutsumi
The Short Form-36 Health Survey Questionnaire in spine surgery 48
M. Grevitt, R. Khazim, J. Webb, R. Mulholland and J. Shepperd
Spinal cord monitoring in operations for neuromuscular scoliosis 53
M. H. H. Noordeen, J. Lee, C. E. R. Gibbons, B. A. Taylor and G. Bentley
Management of fibular hemimelia 58
D. Naudie, R. C. Hamdy, F. Fassier, B. Morin and M. Duhaime
Spontaneous regeneration of the lateral malleolus after traumatic loss in a three-year-old boy 66
H.-W. Park, H.-J. Kim and B.-M. Park
Total shoulder replacement in rheumatoid disease 68
M. P. M. Stewart and I. G. Kelly
Treatment of chronic rotator-cuff impingement by arthroscopic subacromial decompression 73
R. W. Nutton, J. M. McBirnie and C. Phillips
Isokinetic strength after tears of the supraspinatus tendon 77
E. Itoi, H. Minagawa, T. Sato, K. Sato and S. Tabata
Primary Charnley total hip arthroplasty for congenital dysplasia 83
T. Okamoto, S. Inao, E. Gotoh and M. Ando
Hydroxyapatite in revision of total hip replacements with massive acetabular defects 87
H. Oonishi, Y. Iwaki, N. Kin, S. Kushitani, N. Murata, S. Wakitani and K. Imoto
Pain levels after total hip replacement 93
A. R. Britton, D. W. Murray, C. J. Bulstrode, K. McPherson and R.A. Denham
Tourniquets in forefoot surgery 99
V. Finsen and A.-M. Kasseth
An unusual complication of total knee replacement 102
T. G. McWilliams, C. L. Poon and C. N. McCollum
Extradigital glomus tumour causing thigh pain 104
S. Amillo, F. J. Arriola and G. Muñoz
Complications of transpedicular lumbosacral fixation for non-traumatic disorders 183
H. Pihlajamäki, P. Myllynen and O. Böstman
Fixed pelvic obliquity after poliomyelitis 190
D. Y. Lee, I. H. Choi, C. Y. Chung, T.-J. Cho and J. C. Lee
Osteotomy of the cervical spine in ankylosing spondylitis 197
M. J. McMaster
Atlanto-axial dislocation without fracture 204
N. Boos, R. Khazim, R. W. Kerslake, J. K. Webb and H. Mehdian
Smoking, alcohol and the risk of Dupuytren's contracture 206
P. Burge, G. Hoy, P. Regan and R. Milne

Dupuytren's disease may extend beyond the wrist crease in continuity 211
A. Sinha
Osteonecrosis of the femoral head 213
M. Sakamoto, K. Shimizu, S. Iida, T. Akita, H. Moriya and Y. Nawata
Early deterioration after modified rotational acetabular osteotomy for the dysplastic hip 220
M. Matsui, K. Masuhara, K. Nakata, T. Nishii, N. Sugano and T. Ochi
Triple osteotomy of the pelvis for acetabular dysplasia 225
M. de Kleuver, M. A. P. Kooijman, P. W. Pavlov and R. P. H. Veth
Evaluation of the acetabular labrum by MR arthrography 230
M. Leunig, S. Werlen, A. Ungersböck, K. Ito and R. Ganz
Soft-tissue balancing with pressure distribution during total knee arthroplasty 235
T. Takahashi, Y. Wada and H. Yamamoto
Stanmore Total Hip replacement in younger patients 240
D. F. G. Emery, H. J. Clarke and M. L. Grover
Total hip arthroplasty after previous proximal femoral osteotomy 247
N. Boos, R. Krushell, R. Ganz and M. E. Müller
Loss to follow-up matters 254
D. W. Murray, A. R. Britton and C. J. K. Bulstrode
Acetabular osteolysis and migration in bipolar arthroplasty of the hip 258
K. Nakata, K. Ohzono, K. Masuhara, M. Matsui, K. Hiroshima and T. Ochi
The effects of early tourniquet release during total knee arthroplasty 265
J. Barwell, G. Anderson, A. Hassan and I. Rawlings
Prolonged asymptomatic micro-embolism after hip or knee arthroplasty 269
P. Abraham, D. Carter, J. R. Millot, G. Leftheriotis, L. Pidhorz and J. L. Saumet
The Ilizarov method in nonunion, malunion and infection of fractures 273
D. R. Marsh, S. Shah, J. Elliott and N. Kurdy
Arthroscopy for problems after ankle fracture 280
C. Niek van Dijk, R. A. W. Verhagen and J. L. Tol
Articular penetration is more likely in Garden-I fractures of the hip 285
P. Hernigou and P. Besnard
Complex nonunion of fractures of the femoral shaft treated by wave-plate osteosynthesis 289
D. Ring, J. B. Jupiter, R. A. Sanders, J. Quintero, V. M. Santoro, R. Ganz and R. K. Marti
Percutaneous fixation of three- and four-part fractures of the proximal humerus 295
H. Resch, P. Povacz, R. Fröhlich and M. Wambacher
Atrophic nonunion of the clavicle 301
M. I. Boyer and T. S. Axelrod
Bilateral dislocation of the hip during convulsions 304
E. Rath, O. Levy, N. Liberman and D. Atar
Epiphysiodesis using a cannulated tubesaw 307
M. F. Macnicol and M. S. Gupta
Radiological and survival comparison of four methods of fixation of a proximal femoral stem 351
W. J. Donnelly, A. Kobiashi, M. A. R. Freeman, T. W. Chin, H. Yeo, M. West and G. Scott
Measurement of polyethylene wear in cementless total hip arthroplasty 361
C.-H. Shih, P.-C. Lee, J.-H. Chen, C.-L. Tai, L.-F. Chen, J. S.-S. Wu and W. H. Chang
Middle-term results of threaded acetabular cups 366
H.-G. Simank, D. R. C. Brocai, D. Reiser, M. Thomsen, D. Sabo and M. Lukoschek
Increased awareness of glove perforation in major joint replacement 371
P. Nicolai, C. H. Aldam and P. W. Allen
The prognosis and treatment of dislocated total hip arthroplasties with a 22mm head 374
U. Hedlundh, L. Sanzén and H. Fredin
Cement pressurisation during hip replacement 379
A. W. McCaskie, M. R. Barnes, E. Lin, W. M. Harper and P. J. Gregg
Detection of orthopaedic prostheses at airport security checks 385
J. G. Grohs and F. Gottsauner-Wolf
Detection of orthopaedic implants by airport metal detectors 388
P. Basu, G. J. Packer and J. Himstedt

Cubital tunnel reconstruction for ulnar neuropathy in osteoarthritic elbows 390
A. Tsujino, Y. Itoh, K. Hayashi and M. Uzawa
The Norway elbow replacement 394
F. Risung
Limb salvage using distraction osteogenesis 403
H. Tsuchiya, K. Tomita, K. Minematsu, Y. Mori, N. Asada and S. Kitano
Treatment of displaced proximal humeral fractures in elderly patients 412
K. Zyto, L. Ahrengart, A. Sperber and H. Törnkvist
Herbert screw fixation by limited access for acute fractures of the scaphoid 418
G. Inoue and K. Shionoya
The interosseous membrane in radio-ulnar dissociation 422
A. L. Wallace, W. R. Walsh, M. van Rooijen, J. S. Hughes and D. H. Sonnabend
Cancellous grafting and external fixation for unstable Colles' fractures 428
D. M. Cannegieter and J. W. Juttmann
External fixation and secondary intramedullary nailing of open tibial fractures 433
P. Antich-Adrover, D. Marti-Garin, J. Murias-Alvarez and C. Puente-Alonso
Disruption of the pelvic ring during spontaneous childbirth 438
D. Pennig, B. Gladbach and W. Majchrowski
Fasciocutaneous blood supply in below-knee amputation 441
M. D. Humzah and P. M. Gilbert
Fracture on removal of the ACE tibial nail 444
M. Takakuwa, M. Funakoshi, K. Ishizaki, T. Aono and H. Hamaguchi
Reconstruction of the lateral ligaments of the ankle using a regional periosteal flap 446
M. Rudert, N. Wülker and C. J. Wirth
Osteosynthesis without instrumentation for vertebral pseudarthrosis in the osteoporotic spine 452
K. Hasegawa, T. Homma, S. Uchiyama and H. E. Takahashi
The behavioural response to whiplash injury 523
M. Gargan, G. Bannister, C. Main and S. Hollis
Results of nerve grafting for injuries of the axillary and suprascapular nerves 527
Y. Mikami, A. Nagano, N. Ochiai and S. Yamamoto
Full exposure of the axillary and suprascapular nerves 532
N. Ochiai, A. Nagano, Y. Mikami and S. Yamamoto
Injury to the brachial plexus by a fragment of bone after fracture of the clavicle 534
O. Barbier, J. Malghem, O. Delaere, B. Vande Berg and J. J. Rombouts
Closed treatment of displaced middle-third fractures of the clavicle gives poor results 537
J. M. Hill, M. H. McGuire and L. A. Crosby
Anterior dislocation of the shoulder in elderly patients 540
S. Gumina and F. Postacchini
Mallet deformity of the finger 544
B. Okafor, C. Mbubaegbu, I. Munshi and D. J. Williams
Skeletal metastases from soft-tissue sarcomas 548
H. Yoshikawa, T. Ueda, S. Mori, N. Araki, S. Kuratsu, A. Uchida and T. Ochi
Influence of local recurrence on the prognosis of soft-tissue sarcomas 553
T. Ueda, H. Yoshikawa, S. Mori, N. Araki, A. Myoui, S. Kuratsu and A. Uchida
The cost-effectiveness of limb salvage for bone tumours 558
R. J. Grimer, S. R. Carter and P. B. Pynsent
Tuberculous osteomyelitis 562
R. Vohra, H. S. Kang, S. Dogra, R. R. Saggar and R. Sharma
Evaluation of sinus-track cultures in chronic bone infection 567
H. A.-L. Mousa
The reliability of measurements of pelvic radiographs in infants 570
F. G. Boniforti, G. Fujii, R. D. Angliss and M. K. D. Benson
Carpal tunnel syndrome in the mucopolysaccharidoses and mucolipidoses 576
F. S. Haddad, D. H. A. Jones, A. Vellodi, N. Kane and M. C. Pitt
Early radiological observations may predict the long-term survival of femoral hip prostheses 583
A. Kobayashi, W. J. Donnelly, G. Scott and M. A. R. Freeman

Antibiotic prophylaxis in total hip arthroplasty 590
B. Espehaug, L. B. Engesaeter, S. E. Vollset, L. I. Havelin and N. Langeland
Prevention of heterotopic ossification after total hip replacement 596
D. Knelles, T. Barthel, A. Karrer, U. Kraus, J. Eulert and O. Kölbl
Early femoral loosening in one design of cemented hip replacement 603
S. N. Massoud, J. B. Hunter, B. J. Holdsworth, W. A. Wallace and R. Juliusson
Valgus-extension osteotomy for advanced osteoarthritis in dysplastic hips 609
E. Gotoh, S. Inao, T. Okamoto and M. Ando
Complete displacement of the femoral stem during dislocation of a THR 616
G. Volpin, B. Grimberg and M. Daniel
Rotator-cuff tear of the hip 618
T. D. Bunker, C. N. A. Esler and W. J. Leach
Acute colonic pseudo-obstruction after total hip replacement 621
A. Ballaro, C. L. M. Gibbons, D. M. Murray, M. G. W. Kettlewell and M. K. Benson
MRI can prevent unnecessary arthroscopy 624
I. W. Carmichael, A. M. MacLeod and J. Travlos
Preoperative factors influencing the range of movement after total knee arthroplasty for severe osteoarthritis 626
A. Lizaur, L. Marco and R. Cebrian
The clinical advantages of autologous transfusion 630
J. H. Newman, M. Bowers and J. Murphy
Venous haemodynamics in both legs after total knee replacement 633
M. A. McNally, R. Bahadur, E. A. Cooke and R. A. B. Mollan
Silicone suspension of external prostheses 638
M. Heim, M. Wershavski, S. T. Zwas, I. Siev-Ner, H. Nadvorna and M. Azaria
Tear of the plantar calcaneonavicular (spring) ligament causing flatfoot 641
D. C. Borton and T. S. Saxby
The influence of subtalar and triple arthrodesis on the tibiotalar joint 644
J. A. C. de Heus, R. K. Marti, P. P. Besselaar and G. H. R. Albers
Isolated bilateral recurrent dislocation of the calcaneocuboid joint 648
C. N. Mcharo and P. E. Ochsner
An anatomical study of a new portal for ankle arthroscopy 650
R. A. Buckingham, I. G. Winson and A. J. Kelly
Treatment of developmental dislocation of the hip in children after walking age 710
S. Mitani, Y. Nakatsuka, H. Akazawa, K. Aoki and H. Inoue
Monitoring the treatment of developmental dysplasia of the hip with the Pavlik harness 719
G. R. Taylor and N. M. P. Clarke
MRI after operative reduction for developmental dysplasia of the hip 724
E. G. McNally, A. Tasker and M. K. Benson
Incomplete healing of simple bone cysts after steroid injections 727
A. Hashemi-Nejad and W. G. Cole
Intraoperative arthrography and the Ilizarov technique 731
F. S. Haddad, G. D. Harper and R. A. Hill
A modified Kapandji procedure for Smith's fracture in children 734
J.-M. Guichet, C.-C. Moller, G. Dautel and P. Lascombes
Proximal thigh pain after femoral nailing 738
R. M. Dodenhoff, J. N. Dainton and P. M. Hutchins
Charcot arthropathy after acetabular fracture 742
E. E. Berg
Regeneration of bone after loss of the distal half of the humerus 746
O. Ülkü and V. Karatosun
Supracondylar osteotomy with Ilizarov fixation for elbow deformities in adults 748
H.-R. Song, S.-H. Cho, S.-T. Jeong, Y.-J. Park and K.-H. Koo
Wrist involvement in Hansen's disease 753
P. Carpintero, A. Garcia-Frasquet, P. Pradilla, J. Garcia and M. Mesa

Fractures of the base of the middle phalanx of the finger 758
N. Seno, H. Hashizume, H. Inoue, J. Imatani and Y. Morito
Magnetic resonance myelography in brachial plexus injury 764
T. Nakamura, Y. Yabe, Y. Horiuchi and S. Takayama
Arthroscopic synovectomy of the elbow for rheumatoid arthritis 770
B. P. H. Lee and B. F. Morrey
Reconstruction of the hemipelvis after the excision of malignant tumours 773
A. Abudu, R. J. Grimer, S. R. Cannon, S. R. Carter and R. S. Sneath
Symptomatic venous thromboembolism after total knee replacement 780
D. J. Warwick and S. Whitehouse
Screening for deep-venous thrombosis after hip and knee replacement without prophylaxis 787
M. T. Clarke, J. S. Green, W. M. Harper and P. J. Gregg
Survivorship of the Charnley total hip arthroplasty in juvenile chronic arthritis 792
M. Y. Lehtimäki, M. U. K. Lehto, H. Kautiainen, H. A. Savolainen and M. M. J. Hämäläinen
Intra-articular local anaesthesia for pain after hip arthroplasty 796
R. W. Crawford, A. M. Ellis, G. A. Gie and R. S. M. Ling
The superficial peroneal tunnel syndrome 801
J. Styf and P. Morberg
Foraminal injection for lateral lumbar disc herniation 804
B. K. Weiner and R. D. Fraser
Preoperative endovascular embolisation of a vertebral haemangioma 808
V. W. K. Ng, A. Clifton and A. J. Moore
Solitary plasma-cell myeloma of the spine in an adolescent 812
N. Boos, M. Goytan, R. Fraser and M. Aebi
Mortality and fatal pulmonary embolism after primary total hip replacement 896
D. Fender, W. M. Harper, J. R. Thompson and P. J. Gregg
Total hip arthroplasty with an uncemented femoral component 900
J. R. McLaughlin and K. R. Lee
The cement mantle in femoral impaction allografting 908
E. L. Masterson, B. A. Masri, C. P. Duncan, A. Rosenberg, M. Cabanela and M. Gross
Continuous passive motion after primary total knee arthroplasty 914
R. O. Pope, S. Corcoran, K. McCaul and D. W. Howie
Synovectomy of the elbow and radial head excision in rheumatoid arthritis 918
N. S. T. Gendi, J. M. C. Axon, A. J. Carr, K. D. Pile, P. D. Burge and A. G. Mowat
Forequarter amputation for high-grade malignant tumours of the shoulder girdle 924
S. M. Bhagia, E. M. Elek, R. J. Grimer, S. R. Carter and R. M. Tillman
Stanmore custom-made extendible distal femoral replacements 927
O. S. Schindler, S. R. Cannon, T. W. R. Briggs and G. W. Blunn
Growth after extendible endoprosthetic replacement of the distal femur 938
W. P. Cool, S. R. Carter, R. J. Grimer, R. M. Tillman and P. S. Walker
Far lateral lumbar disc herniation 943
L. J. O'Hara and R. W. Marshall
Neurological deterioration after posterior wiring of the cervical spine 948
D. W. Lundy and H. Herndon Murray
Sparing of sensation to pin prick predicts recovery of a motor segment after injury to the spinal cord 952
A. R. Poynton, D. A. O'Farrell, F. Shannon, P. Murray, F. McManus and M. G. Walsh
Lengthening of short great toes by callus distraction 955
Y. Takakura, Y. Tanaka, T. Fujii and S. Tamai
Does indomethacin reduce heterotopic bone formation after operations for acetabular fractures? 959
J. M. Matta and K. A. Siebenrock
The fibula-flexor hallucis longus osteomuscular flap 964
D. S. Ruch and L. A. Koman
Awareness of tip-apex distance reduces failure of fixation of trochanteric fractures of the hip 969
M. R. Baumgaertner and B. D. Solberg
A more accurate method of measurement of angulation after fractures of the tibia 972
S. A. Milner

External fixation or flexible intramedullary nailing for femoral shaft fractures in children 975
E. Bar-On, S. Sagiv and S. Porat
Different methods of treatment related to the bilateral occurrence of Perthes' disease 979
T. Futami and S. Suzuki
Primary subacute haematogenous osteomyelitis of the tarsal bones in children 983
E. Ezra and S. Wientroub

Research Section

Editorial 108
N. Rushton
Joint load considerations in total knee replacement 109
M. S. Kuster, G. A. Wood, G. W. Stachowiak and A. Gächter
Substance P level in synovial fluid may predict pain relief after knee replacement 114
J. W. Pritchett
Stress shielding after total knee replacement may cause bone resorption in the distal femur 117
G. H. van Lenthe, M. C. de Waal Malefijt and R. Huiskes
Uptake of ^{99m}Tc-MDP after uncemented hip arthroplasty 123
R. N. Maniar, R. C. Todd, S. Robinson and M. Critchley
Radio-opaque agents in bone cement increase bone resorption 129
A. Sabokbar, Y. Fujikawa, D. W. Murray and N. A. Athanasou
Ceramic-ceramic and metal-polyethylene total hip replacements 135
S. Lerouge, O. Huk, L'H. Yahia, J. Witvoet and L. Sedel
Joint motion and surface contact area related to component position in total hip arthroplasty 140
R. P. Robinson, P.T. Simonian, I. M. Gradisar and R. P. Ching
Sensory and sympathetic innervation of the vertebral endplate in patients with degenerative disc disease 147
M. F. Brown, M. V. J. Hukkanen, I. D. McCarthy, D. R. M. Redfern, J. J. Batten, H. V. Crock, S. P. F. Hughes and J. M. Polak
The effects of posterior fixation on internal intervertebral disc mechanics 154
A. G. Edwards, D. S. McNally, R. C. Mulholland and A. E. Goodship
Contamination of bone allografts 161
R. L. M. Deijkers, R. M. Bloem, P. L. C. Petit, R. Brand, S. B. W. Vehmeyer and M. R. Veen
A new radiographic method of measuring carpal collapse 167
V. Zdravkovic and G. R. Sennwald
In vitro human monocyte response to wear particles of titanium alloy containing vanadium or niobium 311
S. D. Rogers, D. W. Howie, S. E. Graves, M. J. Pearcy and D. R. Haynes
Elevated serum cobalt with metal-on-metal articulating surfaces 316
W. Brodner, P. Bitzan, V. Meisinger, A. Kaider, F. Gottsauner-Wolf and R. Kotz
Long-term results of revision total hip arthroplasty with improved cementing technique 322
R. P. Katz, J. J. Callaghan, P. M. Sullivan and R. C. Johnston
The meniscofemoral ligaments of the knee 327
A. R. Poynton, S. M. Javadpour, P. J. Finegan and M. O'Brien
Femoral component wear in retrieved hip prostheses 331
A. Kusaba and Y. Kuroki
A biomechanical evaluation of suture anchors in repair of the rotator cuff 458
D. J. Rossouw, B. J. McElroy, A. A. Amis, R. J. H. Emery
Can Trendelenburg's sign be positive if the hip is normal? 462
P. N. Vasudevan, K. V. Vaidyalingam and P. Bhaskaran Nair
Aseptic loosening of total hip replacement 467
M. Hukkanen, S. A. Corbett, J. Batten, Y. T. Konttinen, I. D. McCarthy, J. Maclouf, S. Santavirta, S. P. F. Hughes and J. M. Polak
The effects of particulate cobalt, chromium and cobalt-chromium alloy on human osteoblast-like cells in vitro 475
M. J. Allen, B. J. Myer, P. J. Millett and N. Rushton

Apoptosis and proliferation of growth plate chondrocytes in rabbits 483
T. Aizawa, S. Kokubun and Y. Tanaka

Hydroxyapatite coating of threaded pins enhances fixation 487
G. Magyar, S. Toksvig-Larsen and A. Moroni

Mechanosensitive afferent units in the lateral ligament of the ankle 490
T. Takebayashi, T. Yamashita, Y. Minaki and S. Ishii

Mechanoreceptors in the palmar wrist ligaments 494
S. Petrie, J. Collins, M. Solomonow, C. Wink and R. Chuinard

Resorption of hydroxyapatite and fluorapatite coatings in man 654
S. Overgaard, K. Søballe, M. Lind and C. Bünger

Genetic influences in end-stage osteoarthritis 660
J. Chitnavis, J. S. Sinsheimer, K. Clipsham, J. Loughlin, B. Sykes, P. D. Burge and A. J. Carr

Acrylic cement creeps but does not allow much subsidence of femoral stems 665
N. Verdonschot and R. Huiskes

Functional outcome after experimental cauda equina compression 670
F. E. Sayegh, G. A. Kapetanos, P. P. Symeonides, G. Anogiannakis and M. Madentzidis

Periprosthetic bone remodelling after cementless total hip replacement 675
K. C. Ang, S. Das De, J. C. H. Goh, S. L. Low and K. Bose

The anatomy of the anterior origin of the deltoid 680
V. P. Kumar, K. Satku, J. Liu and Y. Shen

The prevention of prosthetic infection using a cross-linked albumin coating in a rabbit model 816
Y. H. An, J. Bradley, D. L. Powers and R. J. Friedman

Variation of the groove in the axis vertebra for the vertebral artery 820
A. Abou Madawi, G. Solanki, A. T. H. Casey and H. A. Crockard

Three modes of ossification during distraction osteogenesis in the rat 824
N. Yasui, M. Sato, T. Ochi, T. Kimura, H. Kawahata, Y. Kitamura and S. Nomura

Chondrocyte transplantation using a collagen bilayer matrix for cartilage repair 831
S. R. Frenkel, B. Toolan, D. Menche, M. I. Pitman and J. M. Pachence

Benign cellular responses in rats to different wear particles in intra-articular and intramedullary environments 837
H. M. Van Der Vis, R. K. Marti, W. Tigchelaar, H. M. Schüller and C. J. F. Van Noorden

Number of polyethylene particles and osteolysis in total joint replacements 844
A. Kobayashi, M. A. R. Freeman, W. Bonfield, Y. Kadoya, T. Yamac, N. Al-Saffar, G. Scott and P. A. Revell

Biomaterial particle phagocytosis by bone-resorbing osteoclasts 849
W. Wang, D. J. P. Ferguson, J. M. W. Quinn, A. H. R. W. Simpson and N. A. Athanasou

The three-dimensional geometry of the proximal humerus 857
P. Boileau and G. Walch

Regulation of bone cells by particle-activated mononuclear phagocytes 988
D. R. Haynes, S. J. Hay, S. D. Rogers, S. Ohta, D. W. Howie and S. E. Graves

Age variations in the properties of human tibial trabecular bone 995
M. Ding, M. Dalstra, C. C. Danielsen, J. Kabel, I. Hvid and F. Linde

Synthetic osteochondral replacement of the femoral articular surface 1003
M. Oka, Y.-S. Chang, T. Nakamura, K. Ushio, J. Togochida and H.-O. Gu

Fresh osteochondral allografts for post-traumatic osteochondral defects of the knee 1008
M. T. Ghazavi, K. P. Pritzker, A. M. Davis and A. E. Gross

Lower-limb lengthening in short stature 1014
A. Polo, R. Aldegheri, A. Zambito, G. Trivella, P. Marganotti, D. De Grandis and N. Rizzuto

Length and torsion of the lower limb 1019
W. Strecker, P. Keppler, F. Gebhard and L. Kinzl

The effects of mechanical forces on bones and joints 1024
U. E. Pazzaglia, L. Andrini and A. Di Nucci

Instructional Course Lectures

Massive prostheses for malignant bone tumours of the limbs 497
S. R. Cannon

The treatment of wrist instability 684
M. Garcia-Elias

Alternative treatments for meniscal injuries 866
R. Verdonk

Management of gunshot wounds of the limbs 1031
G. W. Bowyer and N. D. Rossiter

Obituaries

Alan Graham Apley 1914 – 1996 337
David Lloyd Griffiths 1908 – 1997 691

Correspondence

Reamed or unreamed nailing for closed tibial fractures 170, 697
Management of Perthes' disease of late onset in southern India 171
Surgical resection of primary soft-tisssue sarcoma 171
The effects of particulate polyethylene at a weight-bearing bone-implant interface 172, 340
The prognosis for walking in osteogenesis imperfecta 339
Comparison of two conservative methods of treating an isolated fracture of the lateral malleolus 339
Thermal necrosis after tibial reaming 341
Chronic anterior glenohumeral instability 341
Hip abnormalities detected by ultrasound 342
Acetabular cup migration: prediction of aseptic loosening 342
Congenital dislocation of the hip in extrauterine pregnancy 343
Graded compression stockings for the prevention of deep-vein thrombosis 507
Non-cemented replacement of the trapeziometacarpal joint 509
Simple bone cysts treated by percutaneous autologous marrow grafting 509, 695
Care of the polytraumatised patient 510, 696, 877
Rotational acetabular osteotomy for severe dysplasia of the hip 510
Fractures of the coracoid process 694
Unipolar or bipolar prosthesis for displaced intracapsular hip fracture 694
An evaluation of the Constant-Murley shoulder assessment 695
Degenerative changes of the knee and ankle related to malunion of tibial fractures 698
Femoral component revision using impacted morsellised cancellous graft 874
Ludloff's medial approach for open reduction of congenital dislocation of the hip 875
Brachial plexus injuries 876
Simple bone cysts treated by injection of autologous bone marrow 877
Survival analysis of joint replacements 878
Thromboprophylaxis and death after total hip replacement 878
Which primary total hip replacement 880
Radio-opaque agents in bone cement increase resorption 1037
Thromboprophylaxis and death after total hip replacement 1037
Trauma management 1038
Recurrent rotational deformity of the femur after static locking of intramedullary nails 1039
Physical examination is sufficient for the diagnosis of sprained ankles 1039
Management of fibular hemimelia 1040
Articular penetration in Garden-I fractures of the hip 1041

Book reviews 173, 344, 511, 699, 881, 1042

Announcements 885

Corrections 693, 885, 1045

Forthcoming meetings 175, 346, 514, 703, 886, 1046

Author Index 1049

Subject Index 1058